

Date: Sat, 19 Mar 94 11:08:09 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #307  
To: Info-Hams

Info-Hams Digest                      Sat, 19 Mar 94                      Volume 94 : Issue    307

Today's Topics:

          1994 Contest calendar enclosed  
          93 Quest-How to Mount A 2m Antenna?  
      Daily Summary of Solar Geophysical Activity for 17 March  
          eggbeater const. art. in QST????  
          FT1000D & Heil Pro-set 4?  
          HAM Origin?  
          Ham Radio FTP area on Oakland  
          Is there any patch for HTX-202?  
          March 1994 "RF design" Editorial  
          Packet, Internet & the FCC  
          Part 97  
          Q codes?  
          qsl route for TI9CF  
  WARNING: Potential Satellite Anomaly Warning Update - 17 March

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----  
Date: Fri, 18 Mar 1994 19:14:13 GMT  
From: hp-cv!hp-pcd!hpcvsnz!charlier@hplabs.hp.com  
Subject: 1994 Contest calendar enclosed  
To: info-hams@ucsd.edu

Thanks for typing that in and posting, Dave. I found a couple of typos,  
though:

Dave Bushong (dbushong@wang.com) wrote:

: Here is the 1994 contest calendar from CQ. Each of the fields is

: Contest Weekend/Month Hours

: ARRL VHF Sweepstakes 33

Should be: 4/Jan

: ARRL DX Contest 4/May 14

That should read: ARAL DX contest. (though I'm not sure who the ARAL is, they gotta be crazy to hold a DX contest the same weekend as the WPX CW!)

: CO WW WPX CW Contest last/May 48

Of course thats C\*Q\* not CO.

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Charlie Panek KX7L Hewlett Packard Company

charlier@lsid.hp.com

Lake Stevens Instrument Division

Everett, Washington

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Date: Fri, 18 Mar 1994 23:48:04 GMT

From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!wupost!csus.edu!netcom.com!

dparker@network.ucsd.edu

Subject: 93 Quest-How to Mount A 2m Antenna?

To: info-hams@ucsd.edu

Miles Abernathy (miles@mbs.telesys.utexas.edu) wrote:

: It all seemed so easy, there was so much open space up there for an  
: antenna. I went out and bought an NMO mount and a 2-meter quarter-wave  
: whip. Now I realize that I can't figure out how to get the headliner out to  
: drill the hole.

You might check with the dealer, or even a cell phone installer for tips, but I would suggest a nice diamond or comet gutter mount with one of these ground independent gain antennas. I have had great luck on my 93 Caravan using this same set-up. I hit all the repeaters that I need to, plus great simplex range, and no holes in the roof!

Dave, KD6RRS

Tracy, CA.

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Date: Thu, 17 Mar 1994 21:07:46 MST

From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!

newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!adec23!ve6mgs!  
usenet@network.ucsd.edu  
Subject: Daily Summary of Solar Geophysical Activity for 17 March  
To: info-hams@ucsd.edu

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# DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

17 MARCH, 1994

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(Based In-Part On SESC Observational Data)

## SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 17 MARCH, 1994

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SESC NOTICE: Planning for future solar optical and solar radio observations is in progress. Consideration is being given to having no regular solar activity patrol in the optical and radio wavelengths. There is also a possibility of no synoptic images. Can you describe to us any critical impacts such actions would have on your operations or research? Please reply to SESC no later than 23 March 1994. Contact by phone (303) 497-5127 or FAX (303) 497-7392

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 076, 03/17/94  
10.7 FLUX=085.1 90-AVG=106 SSN=030 BKI=4554 3333 BAI=026  
BGND-XRAY=A4.0 FLU1=5.9E+06 FLU10=1.6E+04 PKI=4555 4343 PAI=032  
BOU-DEV=044,078,073,058,022,021,027,021 DEV-AVG=043 NT SWF=00:000  
XRAY-MAX= B2.3 @ 0504UT XRAY-MIN= A3.1 @ 1843UT XRAY-AVG= A5.6  
NEUTN-MAX= +002% @ 2355UT NEUTN-MIN= -002% @ 0650UT NEUTN-AVG= +0.1%  
PCA-MAX= +0.1DB @ 2355UT PCA-MIN= -0.3DB @ 0330UT PCA-AVG= -0.0DB  
BOUTF-MAX=55352NT @ 0426UT BOUTF-MIN=55299NT @ 1800UT BOUTF-AVG=55325NT  
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+074,+000,+000  
GOES6-MAX=P:+135NT@ 1828UT GOES6-MIN=N:-114NT@ 0855UT G6-AVG=+092,+021,-048  
FLUXFCST=STD:085,085,090;SESC:085,085,090 BAI/PAI-FCST=015,010,010/025,015,010  
KFCST=3344 5322 2334 4322 27DAY-AP=007,017 27DAY-KP=2223 2213 3344 3343  
WARNINGS=\*GSTRM;\*AURMIDWCH  
ALERTS=\*\*MINSTRM  
!!END-DATA!!

NOTE: The Effective Sunspot Number for 16 MAR 94 was 30.0.  
The Full Kp Indices for 16 MAR 94 are: 4o 3+ 4- 3- 3+ 4- 3- 3o  
The 3-Hr Ap Indices for 16 MAR 94 are: 30 17 21 12 18 24 13 15  
Greater than 2 MeV Electron Fluence for 17 MAR is: 1.6E+09

## SYNOPSIS OF ACTIVITY

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Solar activity was very low. There are but two simple active regions visible, 7688 (N19W20) and 7692 (N19E45).

Solar activity forecast: solar activity is expected to be very low.

The geomagnetic field has been at unsettled to minor storm levels with substorms persisting during nighttime. The greater than 2 MeV electron flux remains elevated, in excess of  $5.0E+04$  at various times during the interval.

Geophysical activity forecast: the geomagnetic field is expected to be unsettled to active early, then calm to mostly unsettled levels by the end of the period. Episodes of minor storming may occur during local nighttimes.

Event probabilities 18 mar-20 mar

Class M	01/01/01
Class X	01/01/01
Proton	01/01/01
PCAF	Green

Geomagnetic activity probabilities 18 mar-20 mar

### A. Middle Latitudes

Active	30/25/15
Minor Storm	20/15/10
Major-Severe Storm	10/05/05

### B. High Latitudes

Active	35/35/25
Minor Storm	20/20/15
Major-Severe Storm	10/10/05

HF propagation conditions continue to very slowly improve over all regions, but are still mostly below normal for the polar and high latitude paths. Middle latitude paths are returning to normal and should be near-normal on 18 or 19 March. Near-normal propagation conditions are expected over all regions by about 19 March (or 20 March for higher latitude transauroral and/or transpolar paths).

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 17/2400Z MARCH

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
7688	N19W19	225	0070	CA0	09	009	BETA	
7692	N18E45	161	0060	HSX	02	001	ALPHA	
7691	N07W31	237					PLAGE	

REGIONS DUE TO RETURN 18 MARCH TO 20 MARCH

NMBR	LAT	LO
7683	S18	090

LISTING OF SOLAR ENERGETIC EVENTS FOR 17 MARCH, 1994

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
NONE									

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 17 MARCH, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
NO EVENTS OBSERVED								

INFERRED CORONAL HOLES. LOCATIONS VALID AT 17/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS									
	EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
70	N39E49	S20E26	S04W01	N44E35	189	ISO	POS	020	10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
16 Mar:	0722	0722	0729		SF	7688	N16E01			
	1555	1605	1615	B1.6						

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7688:	0	0	0	1	0	0	0	0	001	(50.0)

Uncorrelated: 0 0 0 0 0 0 0 0 001 (50.0)

Total Events: 002 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations
16 Mar:	0722	0722	0729		SF	7688	N16E01	III

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,
Spray	= Limb Spray,
Surge	= Bright Limb Surge,
EPL	= Eruptive Prominence on the Limb.

\*\* End of Daily Report \*\*

Date: Fri, 18 Mar 94 14:07:08 -0500  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!noc.near.net!news.delphi.com!  
usenet@network.ucsd.edu  
Subject: eggbeater const. art. in QST????  
To: info-hams@ucsd.edu

I remember seeing an article on constructing an  
eggbeater style sat antenna on ..... in an issue of QST.

have torn the shack apart and no DICE!!!

anyone with a reference or an alt. source for an eggbeater sdesign?  
i would be very interested.

thanks

pete n1qdd

-----  
Date: 18 Mar 1994 20:26:15 GMT  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!noc.near.net!jericho.mc.com!  
fugu!levine@network.ucsd.edu  
Subject: FT1000D & Heil Pro-set 4?  
To: info-hams@ucsd.edu

Heil knows about it.

Call them up and ask for the FT1000 mod.

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-----  
Bob Levine KD1GG 7J1AIS VK2GYN formerly KA1JFP  
levine@mc.com <--Internet email Phone(508) 256-1300 x247  
kd1gg@wa1phy.ma <--Packet Mail FAX(508) 256-3599  
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-----  
Date: Fri, 18 Mar 1994 20:40:45 GMT  
From: mozo.cc.purdue.edu!sage.cc.purdue.edu!soubeih@purdue.edu  
Subject: HAM Origin?  
To: info-hams@ucsd.edu

Edward Sorensen <edsorensen@delphi.com> writes:

>

>I have a father-in-law who is a ham Chuck Kramer (KE4BWG) he asked where and  
>when the word "HAM" came to be... Is it an acronym? We have asked many  
>HAMS and even consulted Encyclopedia Britannica and still no luck...  
>Please help, Maybe I can also prove to him that the Internet is worth more

I have heard somewhere that this is the proper origin. There was a magazine  
published named Home Amateur Mechanic, in this magazine an artice was posted  
on how to build an amateur radio. It was one of the first plans that was  
publically published. Therefore, as you can see, the nickname of this radio  
became a HAM radio. This may not be accurate since it just came through the  
grape vine, but that is where everything in this hobby comes from.

Hope I Helped,

Jabran, N9KZA

Purdue University (Destination, Final Four)

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Date: Fri, 18 Mar 1994 10:09:17  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!europa.eng.gtefsd.com!  
news.umbc.edu!eff!news.kei.com!ssd.intel.com!chnews!ornews.intel.com!  
ccm.hf.intel.com!brett\_miller@network.ucsd.edu  
Subject: Ham Radio FTP area on Oakland  
To: info-hams@ucsd.edu

In article <wylzCMuxsM.Hvt@netcom.com> wylz@netcom.com (Scott Ehrlich) writes:

>This is a periodic reminder that the Boston Amateur Radio Club maintains an  
>FTP area on oak.oakland.edu (141.210.10.117) in /pub/hamradio.

>On most systems, the command needed is: ftp oak.oakland.edu  
> or: ftp 141.210.10.117  
> For Gopher: gopher gopher.oakland.edu 70  
> World Wide Web URL: <http://www.acs.oakland.edu>  
^

I just wanted to make a comment on WWW here. I've been using Internet stuff for about 4 years, but last week a guy gave me a program called Mosaic that is a software interface to World Wide Web. All I can say is: WOW!! WWW allows a point and click interface to the Internet. Instead of cryptic unix commands you can see everything and click the mouse on what you want. You can click on a line and have a high resolution movie play on your computer with sound! You can navigate FTP like Program Manger in Windows. I clicked on a few lines and was reading the Dead Sea Scrolls which had pictures of the original manuscripts. It is amazing! All I'm saying here is that if you can get WWW access, get it. It is a full multimedia superhighway - who needs Al Gore!

Now we return to your regularly scheduled scanner discussions...

Brett Miller N70LQ  
Intel Corp.  
American Fork, UT

brett\_miller@ccm.hf.intel.com



Date: 18 Mar 94 18:33:53 GMT  
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!news.tamu.edu!mtec2.mty.itesm.mx!  
lazarza@network.ucsd.edu  
Subject: Is there any patch for HTX-202?  
To: info-hams@ucsd.edu

I wonder if this is the right place to post this question.

Is there any patch available to expand the frequency range of the HTX-202?

If possible, replay to me directly, and if there is interest, i'll post the answers.

Thanks in advance

Luis Zarza  
lazarza@mtec2.mty.itesm.mx

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Date: Fri, 18 Mar 1994 16:53:24 GMT  
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!uwm.edu!mixcom.com!  
kevin.jessup@network.ucsd.edu  
Subject: March 1994 "RF design" Editorial  
To: info-hams@ucsd.edu

The following is reprint from the March 1994, issue of "RF design" magazine. It is being posted here to the amateur radio areas of Internet with the verbal permission of the author, Gary A. Breed, the editor of "RF design".

\*\*\*\*\*  
March, 1994

RF Engineers: Paving the Information Superhighway

By Gary A. Breed, Editor

I'd like to clear up some misconceptions about who is building the "information superhighway" or "national information infrastructure".

Although this universal communications network will carry information in digital form, it is NOT being built just by digital engineers. After all, a normal superhighway carries cars and trucks but isn't built just by automotive engineers! No, the information superhighway is being built by COMMUNICATIONS engineers representing RF, microwave, optical and digital specialties.

Some people interpreted my December article as saying that RF technology would benefit as a spin-off from the efforts being made in telecommunications. That's the wrong interpretation, because RF IS AN INTEGRAL PART OF THE PROCESS! Here's how "RF design" readers are taking part:

RF LINKS -- This is the "wireless" technology everyone is talking about. Cellular telephones, new Personal Communications System applications, wireless links for personal computers, RFID "radio bar codes", no-stop toll collection, data links for inventory reporting, wireless office networks, remote meter reading and a zillion other applications.

COAXIAL CABLE TECHNOLOGY -- Your cable company simply takes ordinary RF signals and transmits them through a cable instead of over the airwaves. An intermediate step in the building of a new infrastructure will be extended use of cable technology, which is completely RF!

FIBER OPTICS -- Lots of RF technology is found here too. Light beams carry the information through these glass fibers, but the circuits that drive the laser diodes at one end, and recover the information at the other are very much like radio transmitters and receivers.

MICROWAVE AND SATELITE LINKS -- This is RF communication at the higher frequencies, but still RF. The lower frequencies emphasized in "RF design" magazine are a major part of these systems, too, in the modulation, demodulation, frequency conversion, amplification and signal processing functions.

HIGH SPEED COMPUTING -- Making the new infrastructure work will require plenty of computing power. There are some terrific digital engineers designing computer circuits for high speed digital signal processing, error detection and correction, and encryption/decryption. But they also need a solid footing in RF theory and techniques. Remember that a 66 MHz PC operates with timing signals that would fall in television channel 3 if they were radiated like RF signals!

I think I've made my point -- RF is one of the key areas of engineering that will make the new information superhighway possible. Now that Congress, the President and private industry are working together (at least in this one area!), work is accelerating in the rewiring of our nation.

I'd love to hear what some of you are doing to make it happen!

[END OF QUOTED ARTICLE]

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Mr Breed did not volunteer an internet address, so I assume that he would only want feedback from readers of "RF design" magazine, and not from

those reading this in the rec.radio.amateur areas of internet. Please respect his privacy.

I would appreciate any follow ups or Email discussion of how all this applies to amateur radio. To again quote Mr. Breed, "I'd love to hear what some of you are doing to make it happen!". Indeed! What are you as an amateur radio operator doing? Is it even a concern of yours?

The frequencies Mr. Breed was talking about were all VHF and higher. As I have stated before, IMO, amateur radio needs to look beyond just RF, and take a wider and more interdisciplinary approach to communications.

One last quote: "No, the information superhighway is being built by COMMUNICATIONS engineers representing RF, microwave, optical and digital specialties." What about us???

Do we want to be just amateur RADIO...

...or can we evolve into amateur COMMUNICATIONS?

FLAME RETARDENT: Please confine this discussion to the RF theory aspects of amateur radio and the associated theory tests. Leave CW, contesting and public service out of it, and I think we'll be OK! ;-))

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--
/`- _      kevin.jessup@mixcom.com
{      }/    Marquette Electronics, Inc
\      /    N9SQB, ARRL, Amateur Radio
|__*|    N9SQB @ WD9ANY.#MKE.WI.USA.NA
```

-----  
Date: Fri, 18 Mar 1994 22:16:00 GMT  
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!  
howland.reston.ans.net!wupost!csus.edu!netcom.com!netnews@network.ucsd.edu  
Subject: Packet, Internet & the FCC  
To: info-hams@ucsd.edu

I've been seeing snippets of messages here and there about the Amateur rules and Packet, but've been unable to glean a straight answer. What are the current rules for message forwarding? i.e. I want to set my computer up to receive Internet mail, and then forward it over packet, is this kosher?

According to a year old FAQ, it is as long as you "hand" forward the messages. I really don't want to do that... Furthermore, the FAQ specifies that the FCC sees Internet mail as third-party traffic, therefore must be screened by the control-op.

Do these rules still apply? Or has Internet Mail forwarding been given a blessing by the FCC? What's up?

Jason Rimmer  
Eclectic Technologies  
jrimmer@netcom.com  
Where technology and your desk meet (most of the time)

-----  
Date: Fri, 18 Mar 1994 20:22:46 GMT  
From: ihnp4.ucsd.edu!sdd.hp.com!hp-cv!hp-pcd!hpspkla!dubner@network.ucsd.edu  
Subject: Part 97  
To: info-hams@ucsd.edu

Jack C. Lockhart (lockhart@mothra.nts.uci.edu) wrote:  
: In article <2m7t08\$09i@lester.appstate.edu>,  
: Watkins, Robert Shawn <RW884@CONRAD> wrote:  
: >Is there a way I can get a copy of the revised Part 97 via e-mail?  
: >  
: > Shawn Watkins  
: > KE4FPZ  
:  
:  
: I just got mine from.  
:  
: ftp.cs.buffalo.edu in pub/ham-radio/ fcc\_part-97-1  
: fcc\_part-97-2  
: fcc\_part-97-3

I found fcc\_part-97-1 on 'buffalo' to be badly truncated and would instead recommend what Bill Starkgraf (wps@ElSegundoCA.NCR.COM) wrote:  
: Get a copy via ftp from oak.oakland.edu (/pub/hamradio/Part97)

:  
: It is cut into 3 pieces. ^  
|  
|  
That is /pub/hamradio/part97 -----

73,  
Joe, K7JD

-----  
Joe Dubner K7JD | Hewlett-Packard Company | dubner@spk.HP.COM  
| PO Box 2500 M.S. 2I |  
| Spokane, WA 99220-2500 | (509) 921-3514  
-----  
-----

Date: 18 Mar 94 16:41:24 GMT  
From: ncrgw2.ncr.com!ncrhub2!tdbunews!nsc32!wps@uunet.uu.net  
Subject: Q codes?  
To: info-hams@ucsd.edu

pull them from the ARRL server (this is only one place) they will get mailed to you.  
send mail to: [info@arrl.org](mailto:info@arrl.org). Your message (text body of the message) should only include:

```
send q-signals
quit
```

Another way it to anonymous ftp them from one of the loactions out there that has the ham files.

oak.oakland.edu  
ftp.cs.buffalo.edu

# Bill

Bill Starkgraf                                wps@ElSegundoCA.ncr.com  
AT&T Global Information Solutions        (310) 524-5754  
El Segundo, CA                              (800) 222-8372 x5754

Call: KD6UQB  
Simi Settlers ARC  
Simi Valley, CA

Date: 18 Mar 1994 12:32:57 GMT  
From: ihnp4.ucsd.edu!swrinde!gatech!howland.reston.ans.net!usenet.ins.cwru.edu!  
news1.hh.ab.com!icd.ab.com!bjp@network.ucsd.edu  
Subject: qsl route for TI9CF  
To: info-hams@ucsd.edu

Thanks,

Brian (N8RPA)

Date: Thu, 17 Mar 1994 21:26:57 MST  
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!  
adec23!ve6mgs!usenet@network.ucsd.edu  
Subject: WARNING: Potential Satellite Anomaly Warning Update - 17 March  
To: info-hams@ucsd.edu

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POTENTIAL SATELLITE ANOMALY WARNING

UPDATED: 03:50 UT, 18 MARCH

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

ATTENTION:

Energetic electrons at greater than 2 MeV continue to be elevated. Highest fluence levels for this event were observed yesterday (16 March) at  $3.1E+09$  electrons/cm<sup>2</sup>-ster-day. Electron densities dropped somewhat to moderate to occasionally high levels today.

This event is expected to begin decaying back toward background levels and finally end over the next 24 to 72 hours.

\*\* End of Warning \*\*

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End of Info-Hams Digest V94 #307

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